

10/009792

Fig. 1

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | ATG | GCT | GGA | CCT | GCC | ACC | CAG | AGC | CCC | ATG | AAG | CTG | ATG | GCC | CTG | 45 |
| 46 | CAG | CTG | CTG | CTG | TGG | AGT | GCA | CTC | TGG | ACA | GTG | CAG | GAA | GCC | ACC | 90 |
| 91 | CCC | CTG | GGC | CCT | GCC | AGC | TCC | CTG | CCC | CAG | AGC | TTC | CTG | CTG | CTG | 135 |
| 136 | TGC | TTA | GAG | CAA | GTG | AGG | AAG | ATC | CAG | GGC | GAT | GGC | GCA | GCG | CTC | 180 |
| 181 | CAG | GAG | AAG | CTG | GCA | GGC | TGC | TTG | AGC | CAA | CTC | CAT | AGC | GGC | CTT | 225 |
| 226 | TTC | CTC | TAC | CAG | GGG | CTC | CTG | CAG | GCC | CTG | GAA | GGG | ATC | TCC | CCC | 270 |
| 271 | GAG | TTG | GGT | CCC | ACC | TTG | GAC | ACA | CTG | CAG | CTG | GAC | GTC | GCC | GAC | 315 |
| 316 | TTT | GCC | ACC | ACC | ATC | TGG | CAG | CAG | ATG | GAA | GAA | CTG | GGA | ATG | GCC | 360 |
| 361 | CCT | GCC | CTG | CAG | CCC | ACC | CAG | GGT | GCC | ATG | CCG | GCC | TTC | GCC | TCT | 405 |
| 406 | GCT | TTC | CAG | CGC | CGG | GCA | GGA | GGG | GTC | CTA | GTT | GCC | TCC | CAT | CTG | 450 |
| 451 | CAG | AGC | TTC | CTG | GAG | GTG | TCG | TAC | CGC | GTT | CTA | CGC | CAC | CTT | GCC | 495 |
| 496 | CAG | CCC | <u>TAA</u> | <u>TAA</u> | | | | | | | | | | | | 508 |

stop codon (see: SEQ ID NO: 17)

Fig. 2

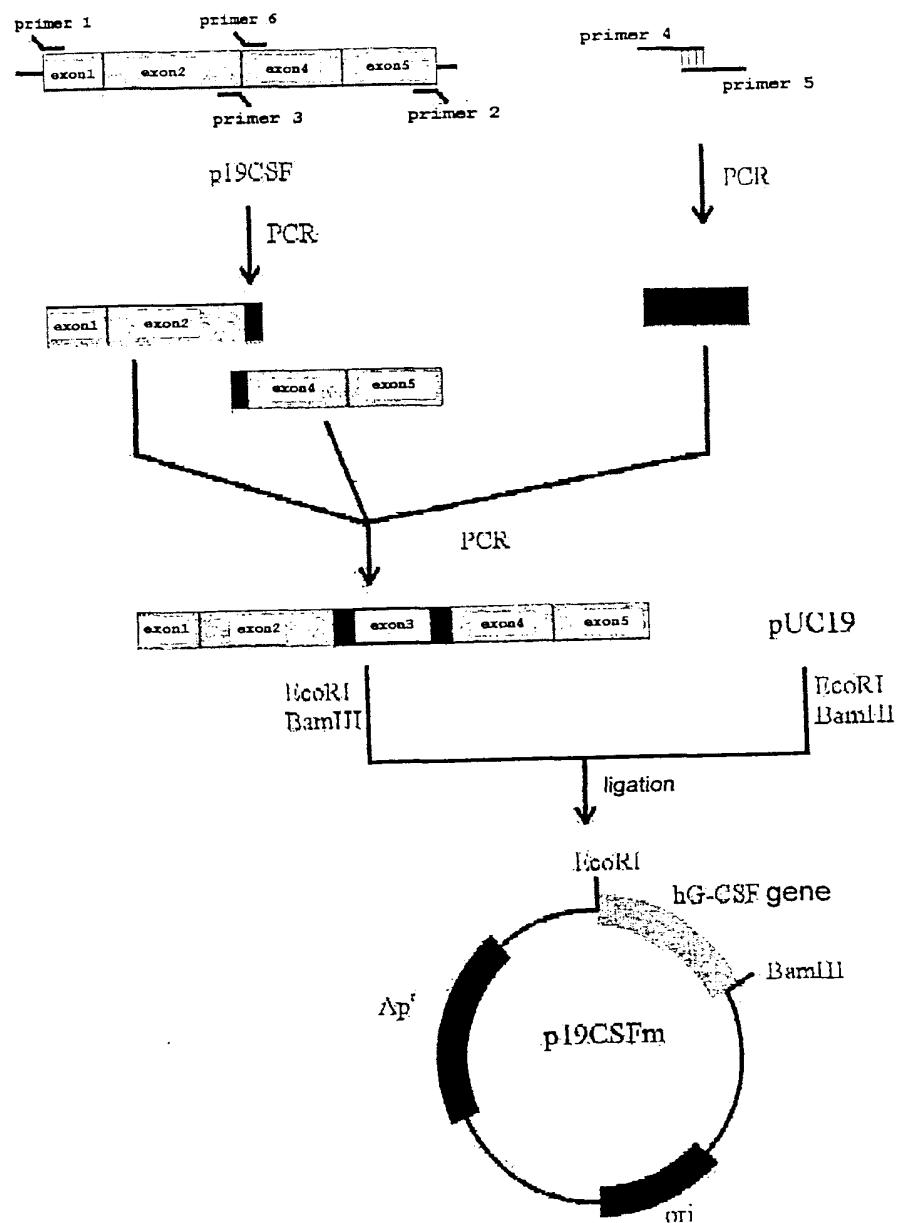
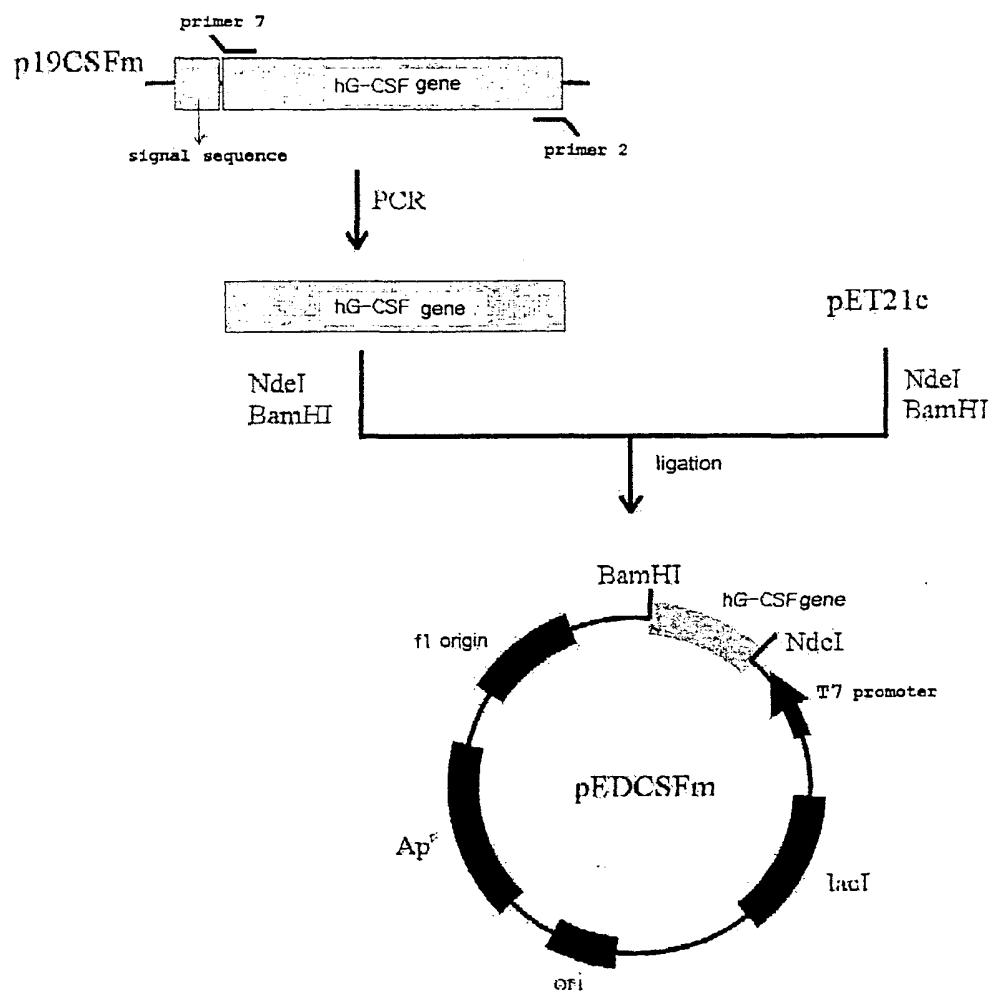


Fig. 3

1 ATG GCT GGA CCT GCC ACC CAG AGC CCC ATG AAG CTG ATG GCC CTG 45
 15 CAG CTG CTG CTG TGG AGT GCA CTC TGG ACA GTG CAG GAA GCC ACC 90
 2 CCC CTG GGC CCT GCC AGC TCC CTG CCC CAG AGC TTC CTG CTC AAG 135
 17 TGC TTA GAG CAA GTG AGG AAG ATC CAG GGC GAT GGC GCA GCG CTC 180
 32 CAG GAG AAG CTG TGT GCC ACC TAC AAG CTG TGC CAC CCC GAG GAG 225
 47 226 CTG GTG CTG CTC GGA CAC TCT CTG GGC ATC CCC TGG GCT CCC CTG 270
 62 271 AGC AGC TGC CCC AGC CAG GCC CTG CAG CTG GCA GGC TGC TTG AGC 315
 77 316 CAA CTC CAT AGC GGC CTT TTC CTC TAC CAG GGG CTC CTG CAG GCC 360
 92 361 CTG GAA GGG ATC TCC CCC GAG TTG GGT CCC ACC TTG GAC ACA CTG 405
 107 406 CAG CTG GAC GTC GCC GAC TTT GCC ACC ACC ATC TGG CAG CAG ATG 450
 122 451 GAA GAA CTG GGA ATG GCC CCT GGC CTG CAG CCC ACC CAG GGT GCC 495
 137 496 ATG CCG GCC TTC GCC TCT GCT TTC CAG CGC CGG GCA GGA GGG GTC 540
 152 541 CTA GTT GCC TCC CAT CTG CAG AGC TTC CTG GAG GTG TCG TAC CGC 585
 167 586 GTT CTA CGC CAC CTT GCC CAG CCC TAA TAA 616
 Val Leu Arg His Leu Ala Gln Pro stop codon
 (see: SEQ ID NO: 18)
 (see: SEQ ID NO: 19)

Fig. 4



10/08/2001

Fig. 5

1 ATG ACC CCC CTG GGC CCT GCC AGC TCC CTG CCC CAG AGC TTC CTG 15
 Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu
 16 CTC AAG TGC TTA GAG CAA GTG AGG AAG ATC CAG GGC GAT GGC GCA 30
 Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala
 31 GCG CTC CAG GAG AAG CTG TGT GCC ACC TAC AAG CTG TGC CAC CCC 45
 Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro
 46 GAG GAG CTG GTG CTG CTC GGA CAC TCT CTG GGC ATC CCC TGG GCT 60
 Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala
 61 CCC CTG AGC AGC TGC CCC AGC CAG GCC CTG CAG CTG GCA GGC TGC 75
 Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys
 76 TTG AGC CAA CTC CAT AGC GGC CTT TTC CTC TAC CAG GGG CTC CTG 90
 Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu
 91 CAG GCC CTG GAA GGG ATC TCC CCC GAG TTG GGT CCC ACC TTG GAC 105
 Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp
 106 ACA CTG CAG CTG GAC GTC GCC GAC TTT GCC ACC ACC ATC TGG CAG 120
 Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln
 121 CAG ATG GAA GAA CTG GGA ATG GCC CCT GCC CTG CAG CCC ACC CAG 135
 Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln
 136 GGT GCC ATG CCG GCC TTC GCT TCT GCT TTC CAG CGC CGG GCA GGA 150
 Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly
 151 GGG GTC CTA GTT GCC TCC CAT CTG CAG AGC TTC CTG GAG GTG TCG 165
 Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser
 166 TAC CGC GTT CTA CGC CAC CTT GCC CAG CCC TAA TAA 175
 Tyr Arg Val Leu Arg His Leu Ala Gln Pro stop codon 531
 (see: SEQ ID NO: 20)
 (see: SEQ ID NO: 21)

Fig. 6

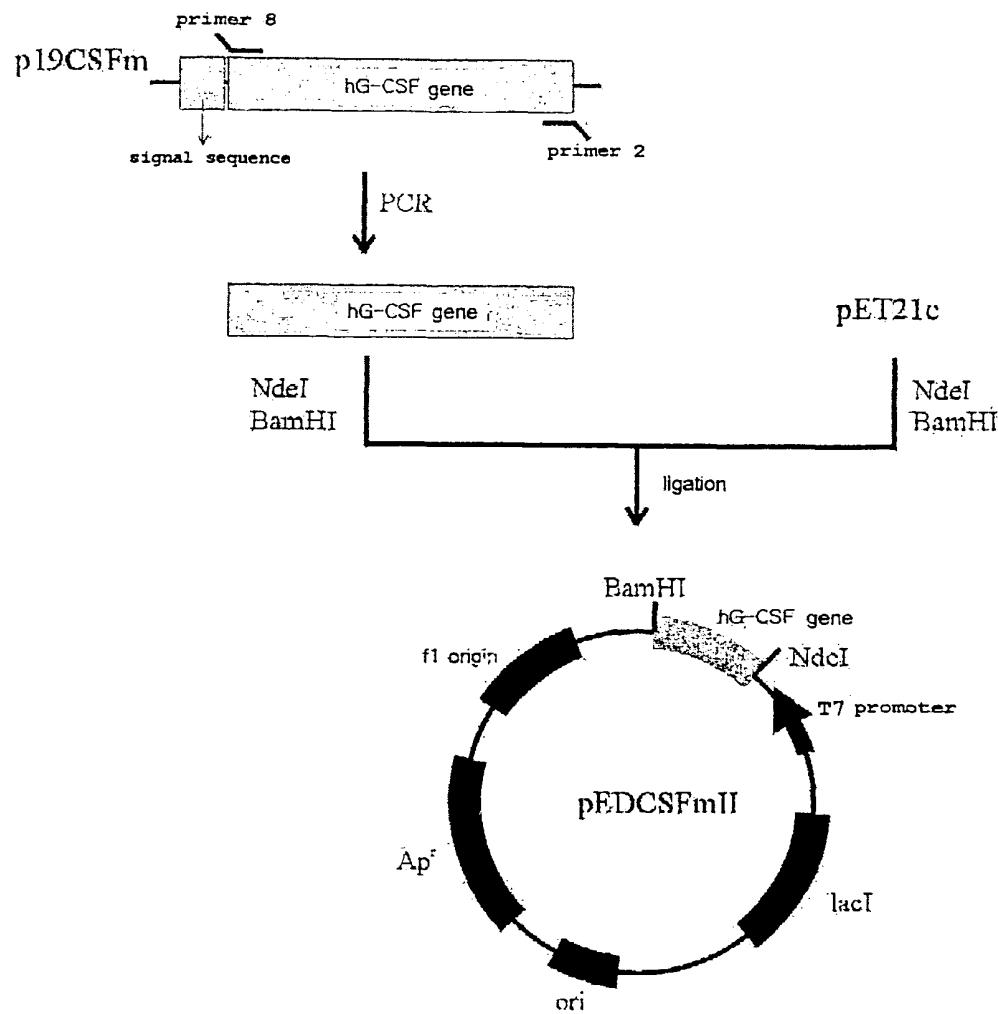
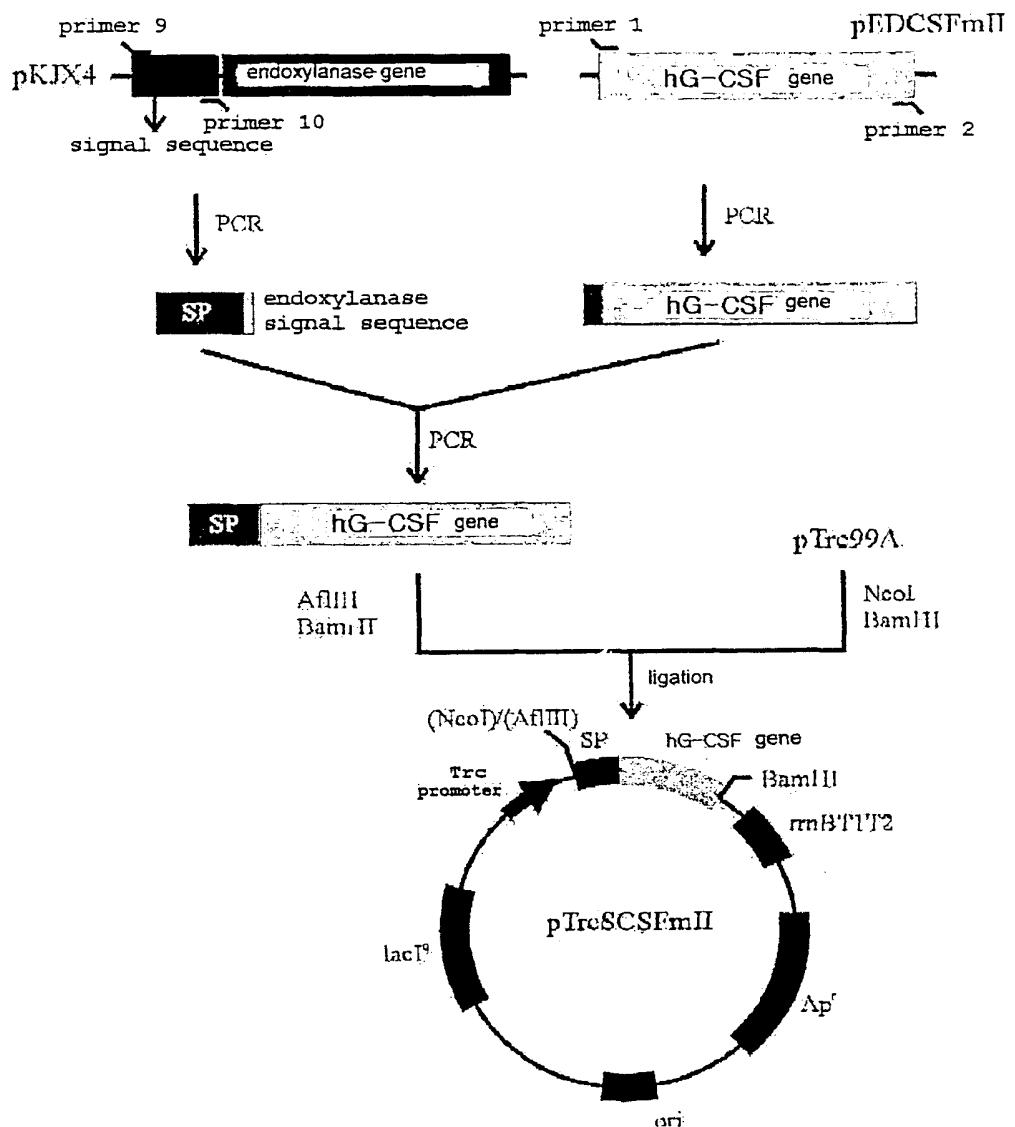


Fig. 7

1 ATG ACT CCG TTA GGT CCA GCC AGC TCC CTG CCC CAG AGC TTC CTG 15
Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu 45
(see: SEQ ID NO: 22)
(see: SEQ ID NO: 23)

Fig. 8



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Fig. 9

-28 -14
1 ATG TTT AAG TTT AAA AAG AAA TTC TTA GTG GGA TTA ACC GCA GCT 45
Met Phe Lys Phe Lys Lys Phe Leu Val Gly Leu Thr Ala Ala

-13 -1 +1 2
46 TTC ATG AGT ATC AGC ATG TTT TCT GCA ACC GCC TCT GCA ACT CCG 90
Phe Met Ser Ile Ser Met Phe Ser Ala Thr Ala Ser Ala Thr Pro

3 17
91 TTA GGT CCA GCC AGC TCC CTG CCC CAG AGC TTC CTG CTC AAG TGC 135
Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys

(see: SEQ ID NO: 24)
(see: SEQ ID NO: 25)

Fig. 10

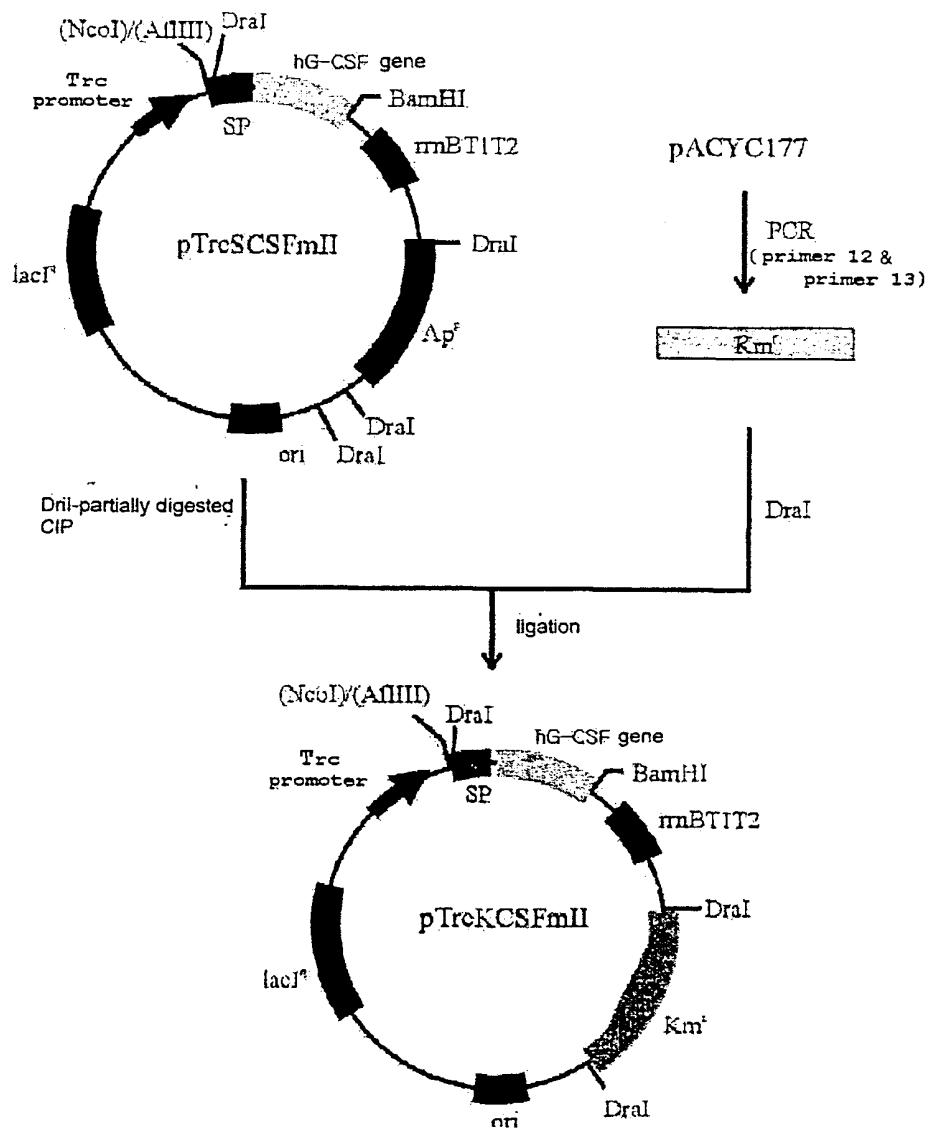


Fig. 11

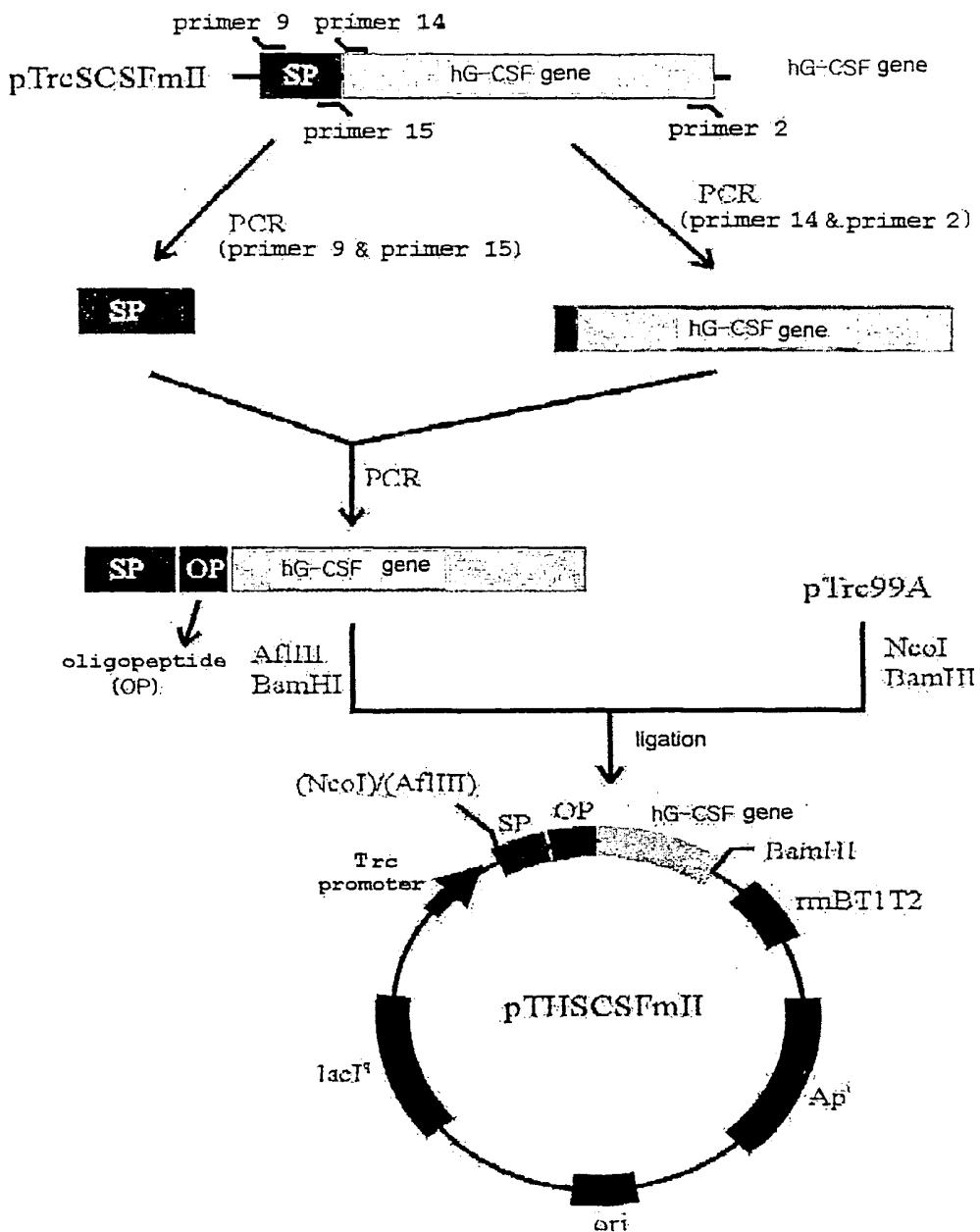


Fig. 12

-28 -14
 1 ATG TTT AAG TTT AAA AAG AAA TIC TTA GTG GGA TTA ACG GCA GCT 45
 Met Phe Lys Phe Lys Lys Phe Leu Val Gly Leu Thr Ala Ala
 -13 -1 +1 2
 46 TIC AIG AGT ATC AGC ATG TTT TCT GCA ACC GCC TCT GCA GCT GGC 90
 Phe Met Ser Ile Ser Met Phe Ser Ala Thr Ala Ser Ala Ala Gly
 -3 17
 91 CCG CAC CAT CAC CAT CAC ATC GAG GGA AGG ACT CCG TTA GGT 135
 Pro His His His His His Ile Glu Gly Arg Thr Pro Leu Gly
 18 32
 136 CCA GCC AGC TCC CTG CCC CAG AGC TTC CTG CTC AAG TGC TTA GAG 180
 Pro Ala Ser Ser Leu Pro Glu Ser Phe Leu Leu Lys Cys Leu Glu
 (see: SEQ ID NO: 26)
 (see: SEQ ID NO: 27)

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Fig. 13

